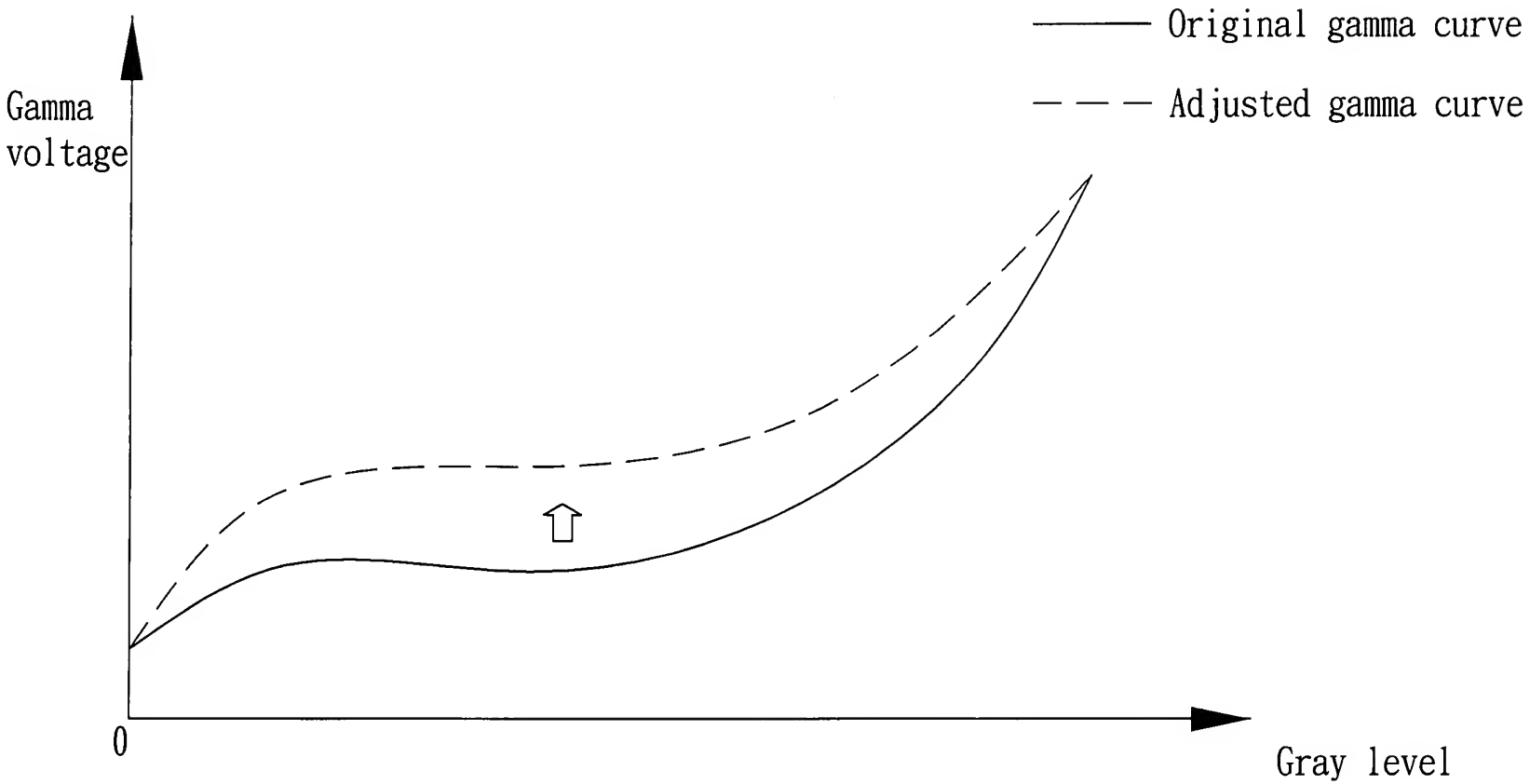

Fig. 1 (Prior Art)

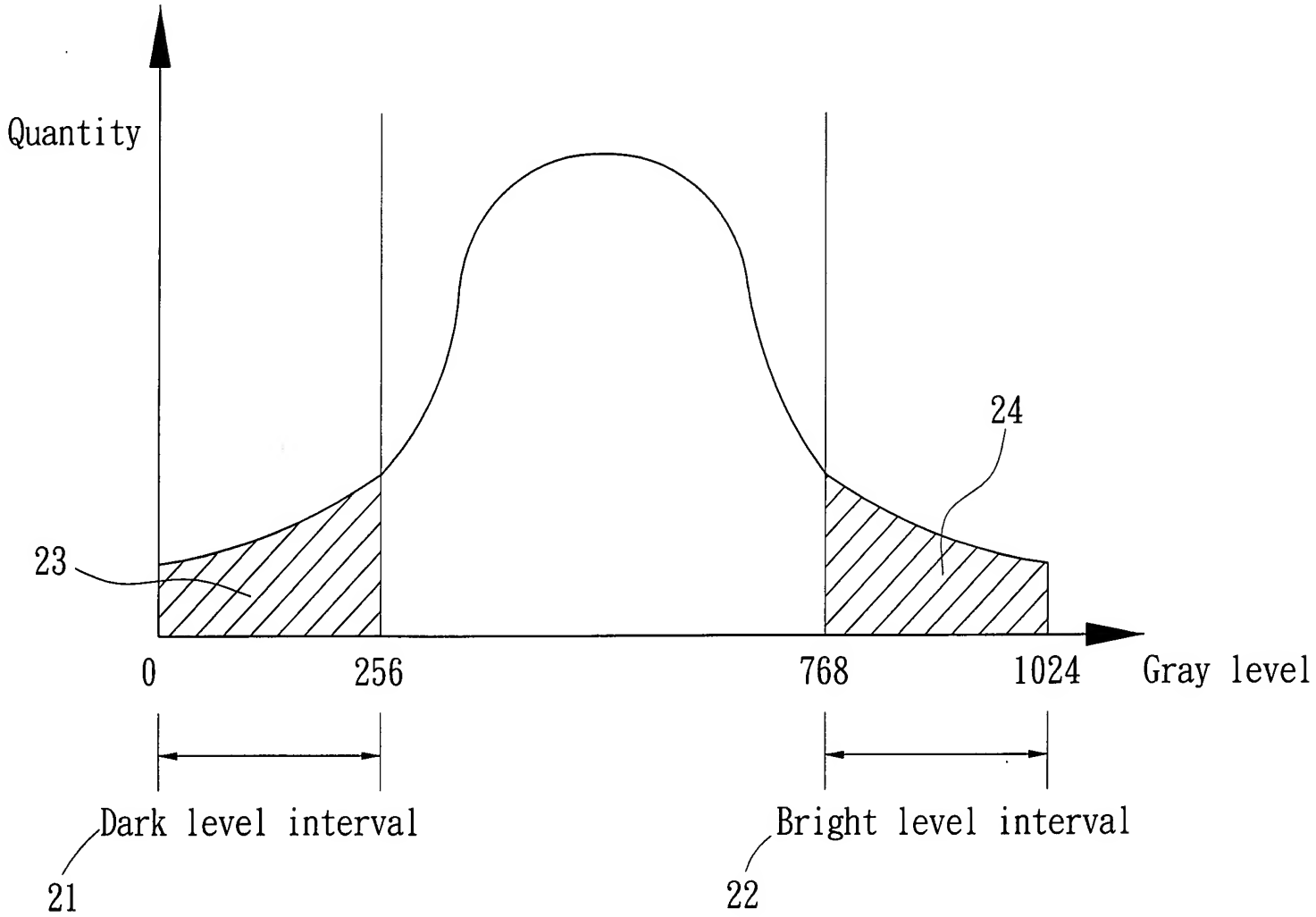
Quantity
24
23
0
256
768
1024
Gray level
Dark level interval
Bright level interval
21
22

Fig. 2

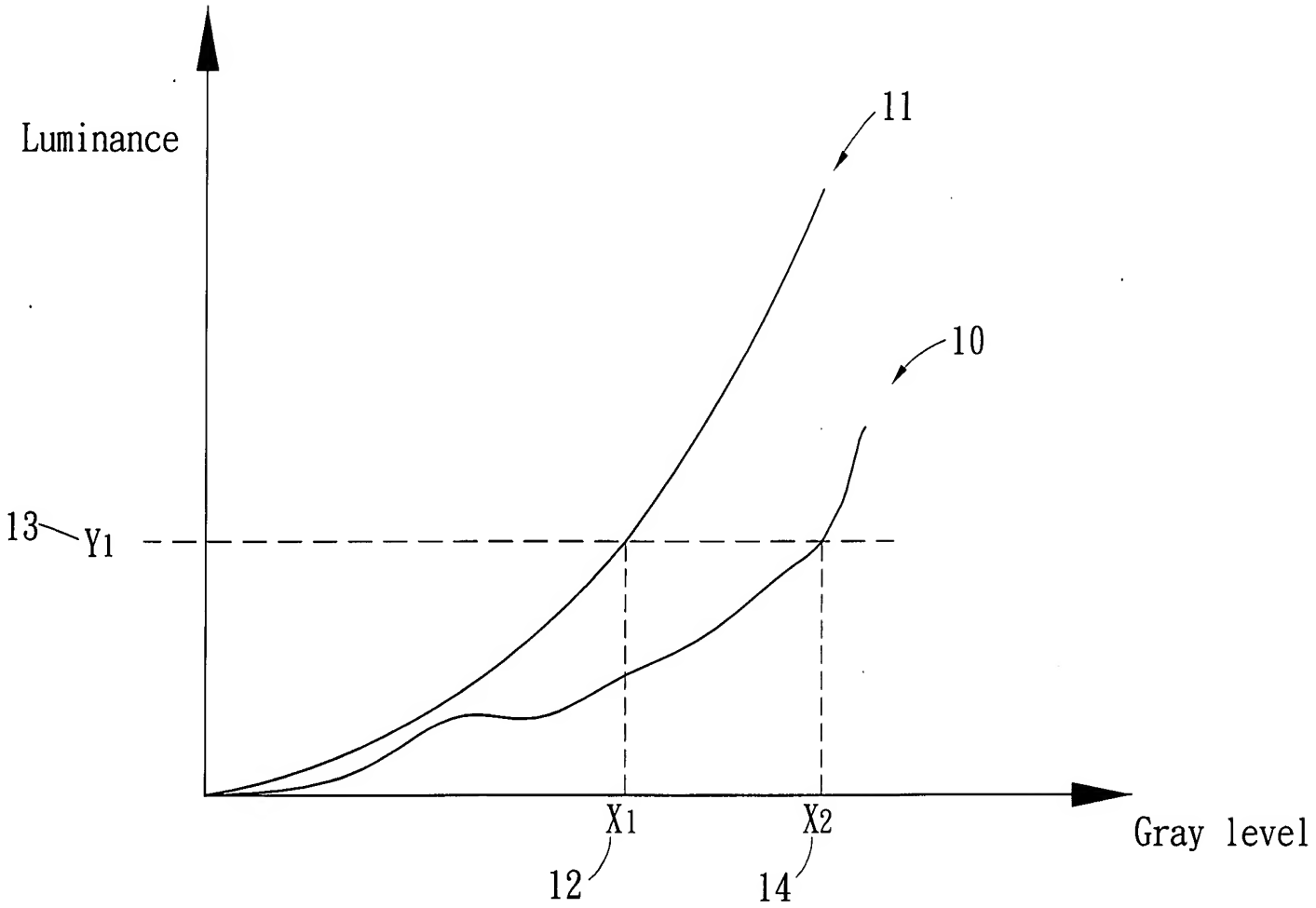

Fig. 3

41 Dark level lookup table

Initial gray level		32	64	96	128	160	192	224	256
Low	Proportion array set	38	73	107	141	175	208	241	273
		44	82	119	155	189	224	257	290
		50	92	131	168	204	239	273	307
		54	98	138	176	212	248	282	316
		57	102	142	181	218	254	289	322
High		58	104	145	184	221	257	292	326

43 45 44 47 46

42 Bright level lookup table

Initial gray level		768	800	832	864	896	928	960	992
Low	Proportion array set	757	790	822	855	888	921	955	989
		747	780	813	846	880	914	949	985
		737	770	804	838	872	907	944	982
		727	760	794	829	864	900	938	978
		717	751	785	820	856	893	932	974
High		708	742	776	812	848	886	927	970
		698	733	767	803	841	879	921	966

43' 45' 44' 47' 46'

Fig. 4

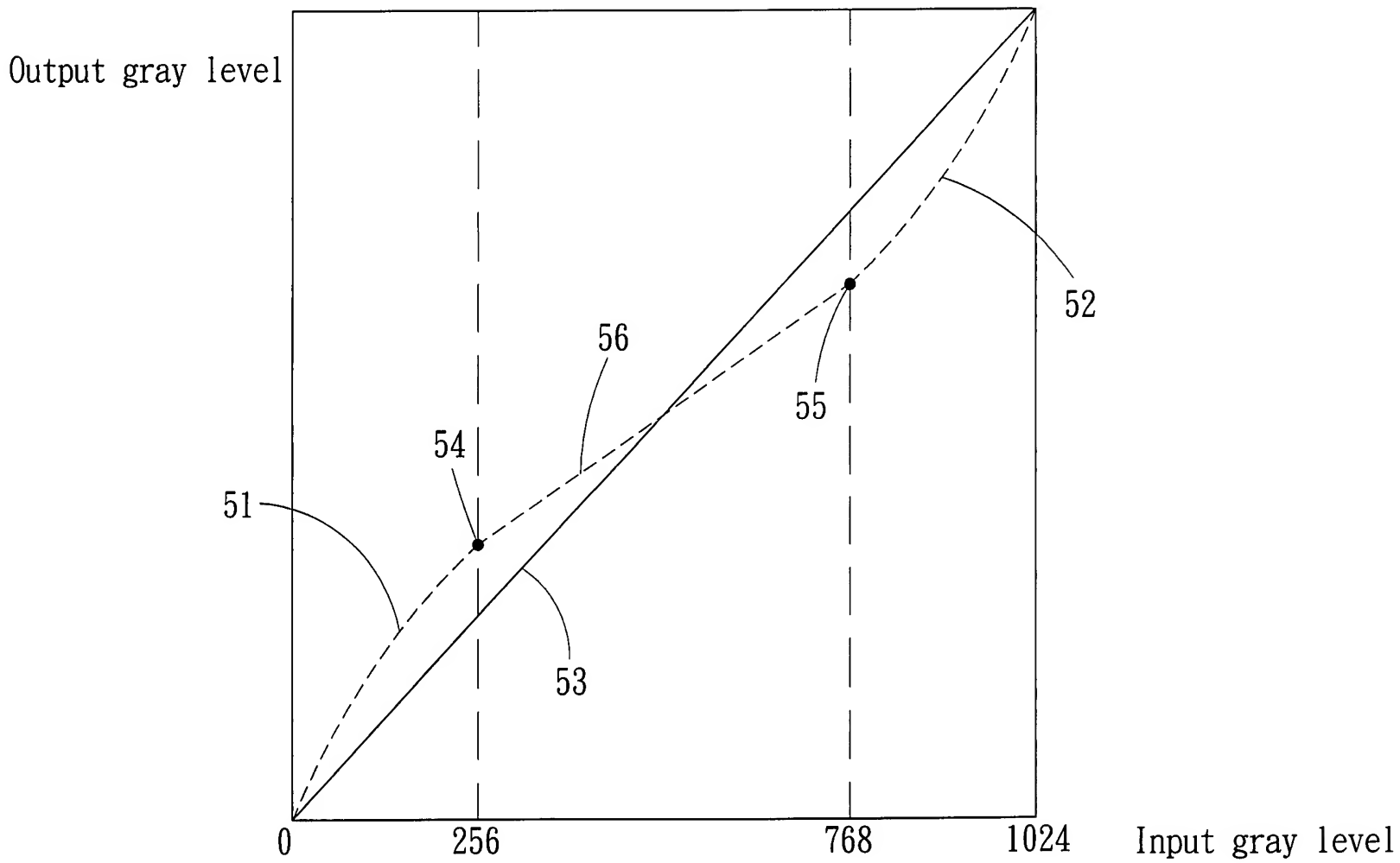
Output gray level
51
52
53
54
55
56
0
256
768
1024
Input gray level

Fig. 5

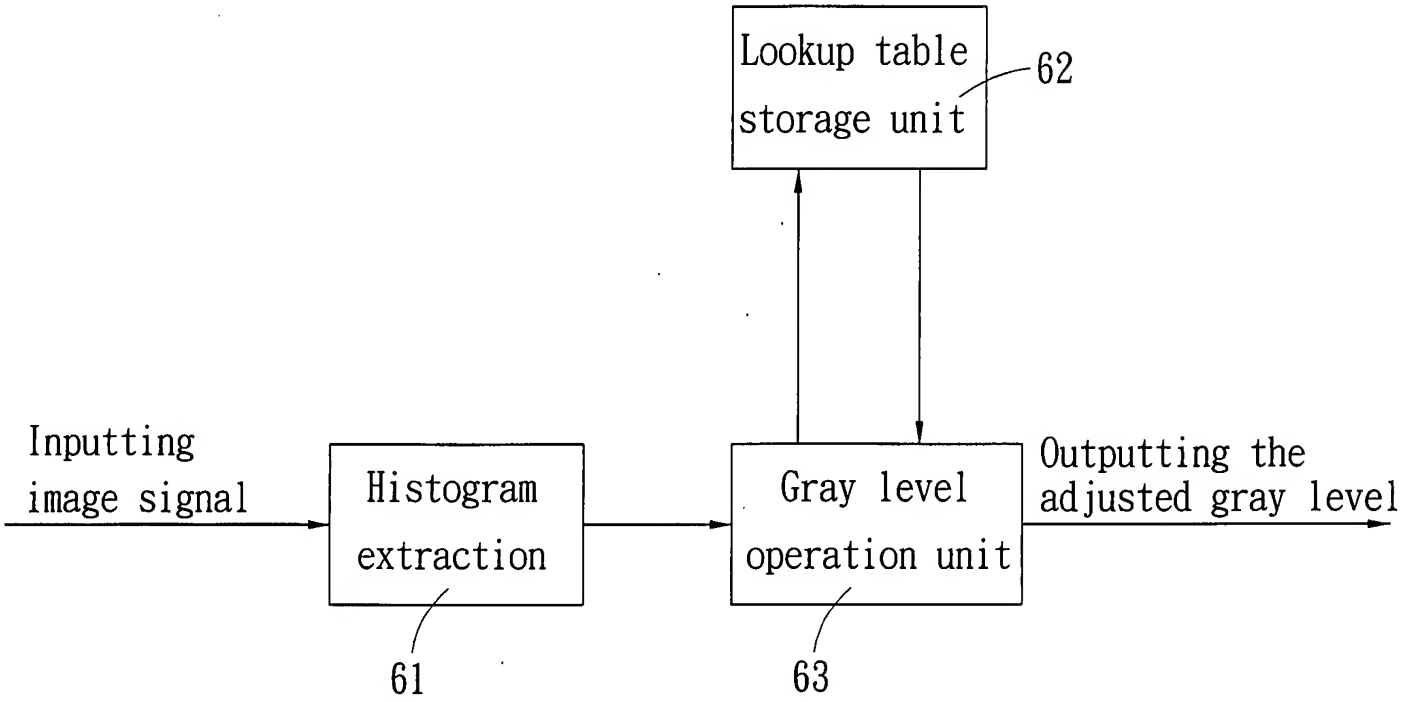
Lookup table storage unit
62
Inputting image signal
Histogram extraction
61
Gray level operation unit
63
Outputting the adjusted gray level

Fig. 6